FAST TRACK LOW PRESSURE MANIFOLD DOSING
FOR A
25% REDUCTION SEPTIC SYSTEM
FOR
SUBSURFACE WASTEWATER DISPOSAL
FALLS PARK SUBDIVISION
512 STILLWATER ROAD – LOT 16
TROUTMAN NC

Prepared for
Live Well Homes
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July 7, 2014
Revised February 19, 2015
Request for Authorization to Construct at 5 bedrooms

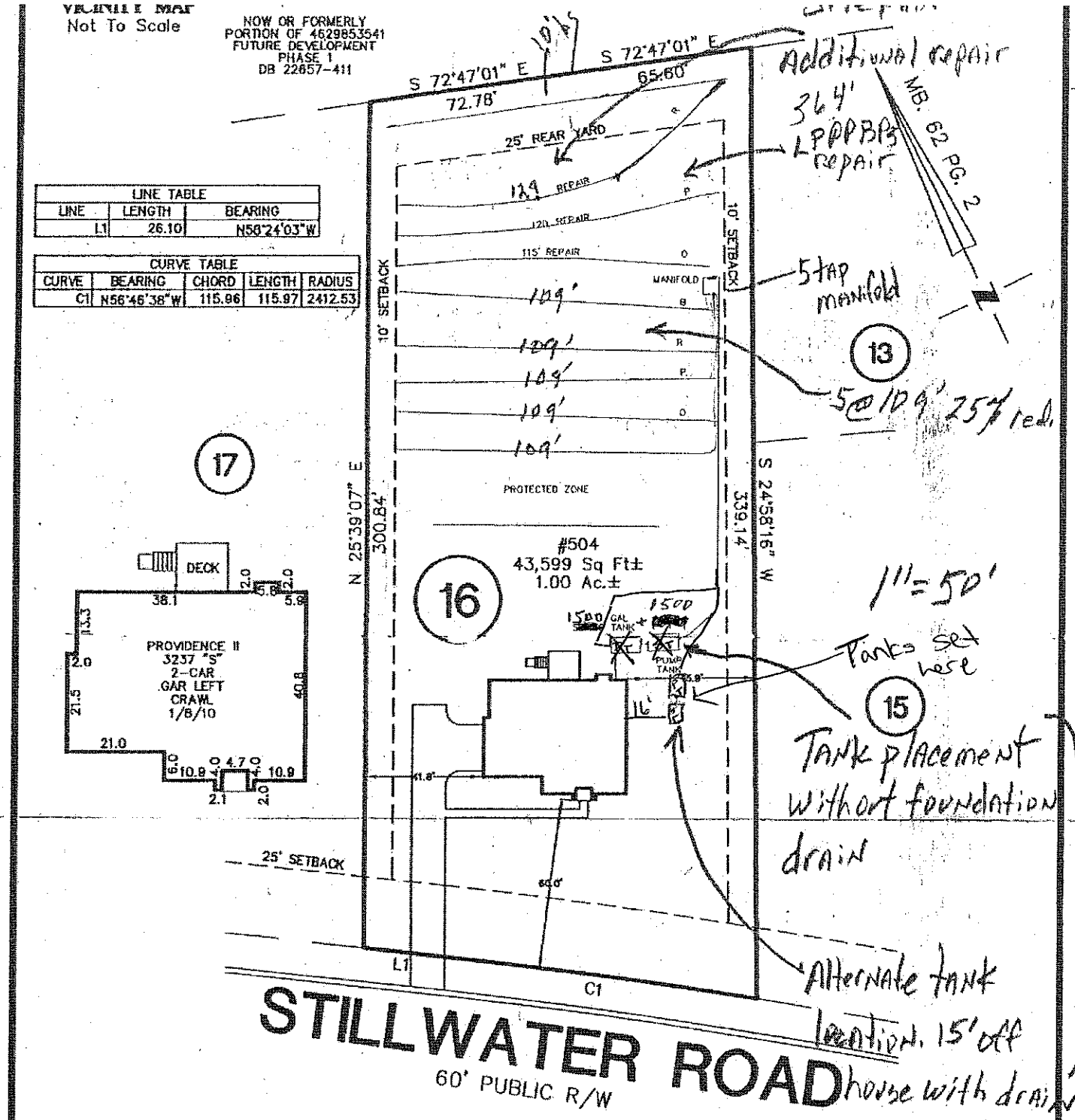
Copy: Iredell County Health Dept.
Statesville, NC

Toney C. Jacobs, LSS

Kathleen M. Saunders, LSS

DESIGN SPECIFICATIONS
512 Stillwater Road – Lot 16 Falls Park Subdivision

Daily design flow	600 gpd.
Septic tank size	1500 gal.
Pumping tank size	1500 gal.
Initial system	545' of 25% reduction, 5 @ 109'
Effluent loading rate, Initial system	0.275 gpd/ft^2
Total length and diameter of supply pipe	approx. 140 ft. 2" sch 40 PVC
Number and length of laterals	5 @ 109'
Trench depth	24" maximum on low side
Flow rate through the system	27.5 gpm from 5 each ½" sch 80 taps from a 3" manifold
Tank depth	7.0'
Elevation head	approx. 16.4' (to be verified by installer after tanks are set)
Pressure head	2.0'
Friction head	3.4'
20% contingency	4.4'
Total head	26.2'
Pump requirements	27.5 gpm at 26.2' of head; use Goulds WE05H pump, pump and compatible panel or equivalent
Dosing volume	300 gal. – 2.0 doses/day at design flow
Depth of water pumped per dose	calculated to specific tank by measure or dealer engineering specifications (1 cubic ft. of water equals 7.48 gal.)
Pump run per dose	approx. 10.9 min.
Check valve	yes
Siphon break hole	no
Effluent loading rate, Repair system	0.275 gpd/ft^2
Repair system	pressure distribution T&J panel 50% reduction designated on site plan as 129', 120', 115'
Design constraints	remove old berms/terraces
Protected zone	there has to be a 25' protected zone between the lowest septic line and any drain, and 15' to any cut greater than 2'.



LINE TABLE		
LINE	LENGTH	BEARING
L1	26.10	N58°24'03"W

CURVE TABLE				
CURVE	BEARING	CHORD	LENGTH	RADIUS
C1	N56°46'38"W	115.96	115.97	2412.53

THIS PROPERTY MAY BE SUBJECT TO ANY AND ALL APPLICABLE DEED RESTRICTIONS, EASEMENTS, RIGHT-OF-WAY, UTILITIES AND RESTRICTIVE COVENANTS WHICH MAY BE OF RECORD OR IMPLIED

THIS DRAWING DOES NOT REFLECT AS-BUILT INFORMATION

PRELIMINARY PLAT
NOT FOR RECORDATION, CONVEYANCES, OR SALES

50 0 50
SCALE: 1" = 50'

HOUSE LOCATION PLOT PLAN
FOR
LOT 16, FALL'S PARK SUBDIVISION, PHASE 2
Iredell County, North Carolina

PROPERTY OF: LIVEWELL HOMES
MAP BOOK 62 PAGE 2 DEED REFERENCE

DRAWN BY: ERG | DATE: FEBRUARY 12, 2015

EASTOVER
LAND SURVEYING COMPANY, P.A.
LAND SURVEYORS – PLANNERS
10430 PARK ROAD, SUITE #300
CHARLOTTE, NORTH CAROLINA 28210
PHONE (704) 927-8080
FAX (704) 889-0105

On-site Wastewater Section

SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

Lot #: 16
File #:
AppID:

Owner: Falls Park, LLC
Address:
Proposed Facility: SFR
Design Flow (.1949) 480
Location of Site: Lot 16, Falls Park

Applicant: Same
Date Evaluated: 5-29-14
Property Size: 1.018
Property Recorded:

Water Supply: [X] Public [ ] Individual [ ] Well [ ] Spring [ ] Other
Evaluation Method: [X] Auger Boring [ ] Pit [ ] Cut
Type of Wastewater: [X] Sewage [ ] Industrial Process [ ] Mixed

soils ok JH

PROFILE #	.1940 Landscape Position/ Slope%	Horizon Depth (IN.)	SOIL MORPHOLOGY .1941 Structure/ Texture	.1941 Consistence Mineralogy	b PROFILE FACTORS .1942 Soil Wetness/ Color	.1943 Soil Depth (IN.)	.1956 Sapro Class	.1944 Restr. Horiz	Profile Class & LTAR
C	L	0-3	Mo GR SL	FR NS/NP	Br				0.3
		3-25	Mo SBK C	FR SS/SP	Red				
		25-48	Wk SBK CL	FR SS/SP	Red; F sap				
2	L	0-20	Mo SBK C	FR SS/SP	Red				0.3 0.275 JH
		20-42	Mo SBK CL	FR SS/SP	Red; F sap				
3	L	0-35	Mo SBK C	FR SS/SP	Red; F sap				0.3
		35-49	Wk SBK CL	FR SS/SP	Red; F sap				
4	L	0-35	Mo SBK C	FR SS/SP	Red				0.3
		35-51	Mo SBK CL	FR SS/SP	Red; F sap				

Description	Initial System	Repair System
Available Space (.1945)		
System Type(s)	25% Red	25% Red
Site LTAR	~~0.3~~ 0.275	~~0.3~~ 0.275

Other Factors (.1946): Remove Berms
Soil Evaluation By: KMS
Others Present:
Site Classification (.1948): PS
Site Evaluation By: KMS
Others Present: